EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

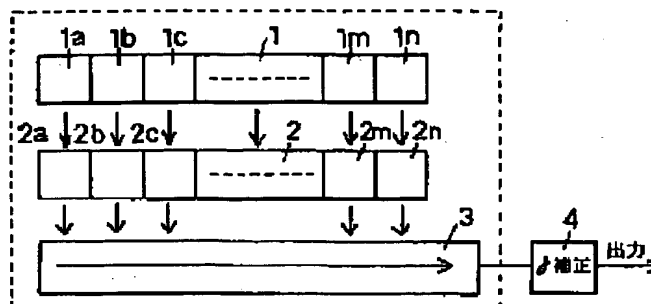PUBLICATION NUMBER : 10065973
PUBLICATION DATE : 06-03-98

APPLICATION DATE : 26-08-96
APPLICATION NUMBER : 08223389

APPLICANT : MINOLTA CO LTD;

INVENTOR : TAKADA KENJI;

INT.CL. : H04N 5/335 H04N 5/202

TITLE : SOLID-STATE IMAGE PICKUP DEVICE

ABSTRACT : PROBLEM TO BE SOLVED: To facilitate correction by performing θ characteristic correction of each element only by multiplication and division after the output of each photoelectric conversion element is logarithmically converted.

SOLUTION: When a photosensitive part 1 receives light, the output of each photoelectric conversion element 1a to n of the part 1 is undergone logarithmic conversion processing in a logarithm converting part 2 and after that, each element 1a to n is successively read by a reading part 3 and outputted to a θcorrecting circuit 4, where a θ characteristic of the elements 1a to n is corrected into a prescribed characteristic. The output of light receiving amount of the elements 1a to n becomes linear when the θ characteristic is 1, but it becomes non-linear when it is not 1. However, in the part 2, with the output of each element 1a to n converted logarithmically, it maintains its linearity when a θ characteristic is 1 and also has its linearity even when it is not 1, and an element θ characteristic is represented as an inclination of linearity. Therefore, an output of each element 1a to n which is gone through the part 2 is undergone only multiplication and division to correct the inclination of linearity so that the θ characteristic of each element 1a to n can easily be corrected.